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Martin Mayer	A-2496		
	A-2490	2863	
	EXAMINER		
LERNER AND GREENBERG, PA		BURLESON, MICHAEL L	
	ART UNIT	PAPER NUMBER	
	2626		
		BURLESON, ART UNIT	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/739,518	MAYER ET AL.		
		Examiner	Art Unit		
		Michael Burleson	2626		
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	correspondence address		
THE   - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. 8 133).		
Status					
1)[	Responsive to communication(s) filed on				
2a)⊠	This action is <b>FINAL</b> . 2b) This	s action is non-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Dispositi	on of Claims				
4) 🛛	Claim(s) <u>1-11</u> is/are pending in the application.				
	4a) Of the above claim(s) <u>8-10</u> is/are withdrawn from consideration.				
	5) Claim(s) 11 is/are allowed.				
6)⊠	)⊠ Claim(s) <u>1-7</u> is/are rejected.				
7)	7) Claim(s) is/are objected to.				
8)[	Claim(s) are subject to restriction and/o	or election requirement.			
Applicati	on Papers				
9)□ '	The specification is objected to by the Examine	er.			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) 🗌 .	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.		
Priority u	inder 35 U.S.C. § 119	•			
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority document		on No		
	3. Copies of the certified copies of the prio	rity documents have been receive	ed in this National Stage		
	application from the International Burea	* **			
* S	ee the attached detailed Office action for a list	of the certified copies not receive	ed.		
<b>A.</b> •					
Attachment 1) ☐ Notice		A) [ ]	(DTO 440)		
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)		

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### **DETAILED ACTION**

### Response to Arguments

- 1. Applicant's arguments filed on February 24, 2005 have been fully considered but they are not persuasive.
- 2. Although Applicant recites on page 8 of his remarks that Decker et al. US 6281984 does not use gamut mapping to go from the device dependent color space (CMYK) to the device independent color space (Lab). Examiner disagrees (see column 8,lines 46-column 9, line 52). The Applicant then refers to the specification page 4, lines 24-page 5,lines 9 to illustrate what gamut mapping really is. However, the Examiner finds no teaching that expresses anything different than that taught by Decker et al. Further, this disclosure appears to be nothing more than what Applicant recites in his claim (note new claim 11). This claim has been indicated allowable. The rejection of claims 1-7 remains.

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# Claim Rejections - 35 USC § 102

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1 rejected under 35 U.S.C. 102(e) as being anticipated by Decker et al. US 6281984.

Regarding claim 1, Decker et al. teaches that converting from L\*a\*b\* to CMY is inverse gamut mapping (column 3,lines 41-45). Decker et al. teaches of converting CMYK to C'M'Y'K', which has the same L\*a\*b\* values and is printed (column 8,lines 46-57). He teaches that the C'M'Y'K' combination for a given printer is L\*a\*b\* to CMY to CMYK (column 8,lines 31-36). He also teaches that from CMYK, L\*a\*b\* values are found (column 8,lines 60-65). This reads on a method of producing, from a first device-dependent image data set, a second image data set matched to a real process, which comprises, by using inverse gamut mapping, transforming color values from the first image data set into color values of a device-independent color space and, by using

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gamut mapping, transforming these device-independent color values into the second image data set of an output device.

Regarding claim 2, Decker et al. teaches that the device-dependent image data set is CMYK (column 8,lines 48-50), which reads on the device-dependent image data sets are CMYB image data sets.

Regarding claim 3, As best understood by the claim language, Decker et al. teaches that the device-dependent image data set is CMYK (column 8, lines 48-50). which reads on using a build up of black in the first image data set for producing the second image data set.

Regarding claim 4, As best understood by the claim language, Decker et al. teaches the K value is used to determine the K' value for the printer (column 9,lines 31-52), which reads on analyzing the build-up of black in the first image data set, and using it in identical form for the production of the second image data set, if the first and the second devices are based upon identical processes.

Regarding claim 5. As best understood by the claim language, Decker et al. teaches that the K value is used to determine the K' value for the printer (column 9, lines 43-46). He teaches that K and K' are mapped to each other in a region and that they will be matched best together and the error will be accepted (column 9,lines 56-67). This reads on analyzing the build-up of black in the first image data set and, for the output in accordance with the boundary conditions of the second device, setting the black build-up to the limits of the second device, if a direct transfer is not possible because of the process.

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Regarding claim 7, Decker et al. teaches that the C'M'Y'K' combination for a given printer is L\*a\*b\* to CMY to CMYK (column 8,lines 31-36), which reads on the device-independent image data sets are Lab image data sets.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Decker et al. US 6281984 in view of Chan US 5107332.

Regarding claim 6, Decker et al. teaches that converting from L\*a\*b\* to CMY is inverse gamut mapping (column 3,lines 41-45). Decker et al. teaches of converting CMYK to C'M'Y'K', which has the same L\*a\*b\* values and is printed (column 8,lines 46-57). He teaches that the C'M'Y'K' combination for a given printer is L\*a\*b\* to CMY to CMYK (column 8,lines 31-36). He also teaches that from CMYK, L\*a\*b\* values are found (column 8,lines 60-65). This reads on a method of producing, from a first device-dependent image data set, a second image data set matched to a real process, which comprises, by using inverse gamut mapping, transforming color values from the first

image data set into color values of a device-independent color space and, by using gamut mapping, transforming these device-independent color values into the second image data set of an output device.

- 5. Decker fails to teach that the device-dependent image data sets are RGB image data sets.
- 6. Chan teaches of converting RGB to CMYK (column 3,lines 31-35 and figure 2), which reads on the device-dependent image data sets are RGB image data sets.

Decker et al. could have easily been modified to use the RGB image data sets of Vaughn et al. This modification would have been obvious to one skilled in the art at the time of the invention in order to convert a color space from one device to another.

## Allowable Subject Matter

- 7. Claim 11 is allowed.
- 8. The following is a statement of reasons for the indication of allowable subject matter: Claim 11 of the current application teaches similar subject matter as the prior art Decker et al. (US 6281984). However, claim 11 is allowed for the reasons pointed out by Applicant's remarks (page 8 and page 9, paragraph 2).

#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to Michael Burleson whose telephone number is (571) 272-7460 and fax number is (571) 273-7460. The examiner can normally be reached Monday thru Friday from 8:00 a.m. –

4:30p.m. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Kimberly Williams can be reached at (571) 272-7471

Michael Burleson Patent Examiner Art Unit 2626

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Mlb July 9, 2005